Math Problem

To find the value of f(-2 - g(3)) , we will first need to compute g(3) and then substitute that into f .

1. **Calculate g(3) **:

$$g(x) = x^2 - 3$$

$$g(3) = 3^2 - 3 = 9 - 3 = 6$$

2. **Now substitute g(3) into -2 - g(3) **:

$$-2 - g(3) = -2 - 6 = -8$$

3. **Now calculate f(-8) **:

$$f(x) = frac{3}{4}x + 10$$

$$f(-8) = frac{3}{4}(-8) + 10 = -6 + 10 = 4$$

Thus, the value of f(-2 - g(3)) is \boxed{4} .